

Timestamp	What is your recommendation for the length, mass, and amplitude for building a pendulum with a period of 4 seconds?	Sample Question 2	Group Members	Equation(s)	What has your group learned about the behavior of a simple pendulum from this lab assignment?
9/28/2010 9:27:41	445 cm = length 200 g = mass 20 degrees = amplitude		Paul and Amanda	$y = .1343x^{.5572}$	Amplitude and mass effect the period of the pendulum to a minimum degree. While length, directly influences it in a power function.
9/28/2010 9:28:08	Length: 6.844 m Mass: 200 g Amplitude: 20 degrees		David Galban, Dyana Baurley, Emna Bakillah, Matt Maskarinec	$y = 2.268x^{(.295)}$, where x is the length in meters and y is the time in seconds.	The period of a pendulum is largely based on solely its length.
9/28/2010 9:32:16	165.92 cm		Damian Owen Lela Mortezaavi	$y = 43.463x - 7.9252$	That only the length will affect the time it takes to swing, and not the mass or the angle.
9/28/2010 9:34:07	constant mass and amp were: 200 g, 20 degrees length= 359.5 cm		Brian Rhindress, Sean Leonard	$.2309x^{.4847}$	It is directly and only dependent on length. Further it behaves as a power function and for this reason the length must be increased greatly to affect the swing time.

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9/30/2010 7:58:56	length - 448.713 cm, mass - 200 g, amplitude - 20 degrees		Alli and Mike	$y = 0.7926x^{0.445}$	We learned that the mass was irrelevant and that the relationship between length and time is not linear; it's to a power.
9/30/2010 8:11:15	mass= 200 g amplitude= 20 degrees length=		Grace Bluefeld Christy Lehman Austin Smith	$y=1.8478x^{0.5455}$ Distance at four seconds is 4.1195 meters.	The weight does not affect the time lapsed for the pendulum lab. The length of the string is the deciding factor in how long it takes for a pendulum to swing back and forth.
9/30/2010 8:22:29	Length- 167 cm Mass- 200 grams Amplitude- 20 degees		Dalton, Tom	$y=.0305x-1.0848$	The length of a pendulum is the single greatest factor in how long it takes a pendulum to swing.

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9/30/2010 8:27:15	The length of the string should be 13.75 meters, the mass of the object should be 200 grams, at an amplitude of twenty degrees.		Shannon Phillips, Dallas Stevens	$y=1.0752x^{0.5013}$	Our group learned that the only thing that has an effect on simple pendulums is the length of the string. The mass of the object and amplitude at where it is dropped from has no effect on the results.
9/30/2010 8:29:49	Length - 292.5 cm Mass - 200 g Amplitude - 20 degrees		Laura Turner, Dan Yarnell	$y=0.0686x^{0.7147}$	The period of each swing can greatly differ, so taking multiple tests for each length is important so you can see which time makes the most sense for your data.
9/30/2010 8:34:34	The mass should be 200g and the amplitude should be 20deg and the length should be 337cm for a 4 second pendulum.		Urvi, Greg	We used a power graph and the equation was $y=0.1097(x^{0.6181})$.	we learned that the amplitude and the mass does not effect the the pendulum; however the length does. The length and the period make a power graph.

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9/30/2010 8:38:05	The Length should be 400 cm Mass does not matter but we choose 250 g The amplitude does not matter but we choose 40 degrees.		Nick , Noman	$Y = 1.1724 \ln(x) - 3.2232$	We learned that angle and weight does not matter for the time and that length is the only thing that has an effect on time.